

Title (en)  
Optical sensor finger

Title (de)  
Optischer Sensorfinger

Title (fr)  
Doigt de capteur optique

Publication  
**EP 2270435 A3 20170419 (DE)**

Application  
**EP 10004973 A 20100511**

Priority  
DE 202009008971 U 20090630

Abstract (en)  
[origin: EP2270435A2] The finger (10) has a longitudinal holder (30) holding two optical fibers. The holder with the optical fibers is axially extended through a protective pipe (40). An exchangeable sensor head (50) is attached at an end of the protective pipe. Another end of the pipe is connected with base housing (20). The optical fibers are optically coupled to optical devices (60) e.g. LED, at an end in the housing and protrude into the sensor head at another end. The optical devices are arranged on a printed circuit board (70) and operate as a light transmitter and/or light receiver. The optical fibers are integrated in a support made of transparent polymer material.

IPC 8 full level  
**G01D 5/30** (2006.01)

CPC (source: EP)  
**G01D 5/268** (2013.01); **G01D 5/30** (2013.01); **G01D 11/30** (2013.01)

Citation (search report)

- [I] JP 2004117325 A 20040415 - OSP KK
- [I] US 5880826 A 19990309 - JUNG WAYNE D [US], et al
- [A] US 4893935 A 19900116 - MANDEL WILLIAM R [US], et al
- [A] US 6561973 B1 20030513 - BALA JOHN L [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**DE 202009008971 U1 20090827**; EP 2270435 A2 20110105; EP 2270435 A3 20170419

DOCDB simple family (application)  
**DE 202009008971 U 20090630**; EP 10004973 A 20100511